CASE STUDY: CISCO LIVE
Customer Conference Recorded with 4K/HD AW-UE70 PTZ Cameras with Auto Tracking

Challenge
Cisco Systems, Inc.’s annual customer conference, known as Cisco Live, was established three decades ago, shortly after the company was founded. According to the conference’s Program Manager Peter Stone, over the past several years session capture has become an increasingly high priority for the Cisco Live online universe.

“When the need for a better-looking rendition of our speakers came into play, we decided if we were going to move up to the next level, we needed a camera system that would not only automatically track a subject but could also be programmed by a user on the fly,” he said.

Solution
Cisco Live has upgraded its session capture with the use of 63 Panasonic AW-UE70W/K 4K/HD pan/tilt/zoom cameras with AW-SF200 Auto Tracking software. This state-of-the-art software enables Panasonic professional PTZ cameras to automatically track presenters via face and body detection, now with deep learning technology.

“I wanted a solution that could actually allow us to point and click a face, which led me to the Panasonic PTZs and Auto Tracking software,” Stone said. “This is still the only solution I can find that makes it so easy to click on a face and reliably track an individual subject throughout an audience, throughout a myriad of background images.”

The most recent Cisco Live event was held June 2019 at the San Diego Convention Center, attracting more than 28,000 attendees including 300 partner exhibitors. The AW-UE70W/Ks outfitted with Panasonic’s latest Auto Tracking software captured more than 700 breakout sessions.
These sessions are all posted to an “on-demand library” on the Cisco Live website (https://www.cisc_live.com/global/on-demand-library.html?search.event=cisc_live_us2019#), so that anyone can register to watch sessions anytime and anywhere. This original content is designed to educate viewers on Cisco products and technology, and to attract them to attend upcoming Cisco Live events.

**Customizing the Solution**

At the San Diego event, an AW-UE70W/K camera was installed in 63 breakout rooms. In contrast to previous camera operations, the Auto Tracking software managed pan/tilt functionality, facilitating more dynamic shooting. One operator was able to manage eight cameras at a time.

Eight operators managed the A/V equipment in the 63 rooms from a centralized control room, with an A/V manager on hand to monitor servers and the network. The task of each operator was to monitor and assist the Auto Tracking of the AW-UE70W/K PTZs, to register a face and adjust the angle, to start/stop the recorders (recording video and PPTs in each room), and to monitor room audio.

Describing the centralized control room operation, Stone said that newer servers utilizing extensive hardware to allow for eight cameras to be used simultaneously were implemented. “We had eight laptops specially configured...”
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– Peter Stone, Cisco Live Program Manager

Summary

“Ultimately, the decision to move to Panasonic PTZs with deep learning was brought on by this very dynamic real-world environment, as opposed to a controlled environment where you have time to set up and capture faces. It’s worked out tremendously well thus far,” Stone said. He added that overall operator training on the new system has been scaled back to about an hour, vs. four hours with the prior cameras.

Stone said he will next implement the AW-UE70W/Ks with Auto Tracking for a smaller Impact Event, as well as for an international Cisco Live conference in Cancun in October 2019.

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to handle the eight screens from the server, along with eight proprietary customized recording stations where we could view the cameras in real time,” he recounted.

“In addition, we had what I call ‘War Room’ screens that gave us an overview of every room in real time, so we could instantly see if there was an issue with a camera or a PowerPoint presentation,” he continued. “Then we had various other levels of support in an ops center: our Pearl recorders sent all their files to file storage downstairs, and we edited files in real time up here all over a 10G fiber network, and saved them back down on another storage device.”

Stone elaborated on the critical value of the AW-SF200’s deep learning technology, which is characterized by accurate human body shapes’ detection under various environments. “Throughout the world, Cisco speakers tend to present a very dynamic situation – they don’t stand still,” he explained. “They won’t wait to be identified by a PTZ that requires a session to capture faces, and they don’t like to take time to wear special badges.

“Also, we needed to find a solution that was fast enough to track our presenters without interaction. Pretty much every other system we saw required some level of cooperation or interaction from your target. And that is something we just can’t accomplish when it comes to speakers who sometimes have only two to three minutes to get up on stage and start their presentation. The last thing they’re going to do is wait for you to take a picture of their side and their front.”